

search notes terms

=> s vitis and LOX

L1 1 VITIS AND LOX

=> d l1 1

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:118656 CAPLUS

DN 138:165736

TI Protein and cDNA sequences of lipoxygenase LOX genes from
Vitis vinifera and use

IN Descenzo, Richard A.; Irelan, Nancy A.

PA USA

SO U.S. Pat. Appl. Publ., 36 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003033627	A1	20030213	US 2001-978522	20011016
PRAI	US 2000-241220P	P	20001016		

=> s vinifera and LOX

L2 1 VINIFERA AND LOX

=> s LOX and food(w)additive

L3 4 LOX AND FOOD(W) ADDITIVE

=> d l3 1-4 ibib ab

L3 ANSWER 1 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 1999:213429 BIOSIS

DOCUMENT NUMBER: PREV199900213429

TITLE: Kinetics of thermal inactivation of pea seed lipoxygenases
and the effect of additives on their thermostability.

AUTHOR(S): Busto, M. D.; Apenten, R. K. Owusu [Reprint author];
Robinson, D. S. [Reprint author]; Wu, Z.; Casey, R.;
Hughes, R. K.

CORPORATE SOURCE: Procter Department of Food Science, University of Leeds,
Woodhouse Lane, Leeds, LS2 9JT, UK

SOURCE: Food Chemistry, (May, 1999) Vol. 65, No. 3, pp. 323-329.
print.

CODEN: FOCHDJ. ISSN: 0308-8146.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 26 May 1999

Last Updated on STN: 26 May 1999

AB Mature pea seeds contain two major lipoxygenases (LOX)
isoenzymes designated LOX-2 and LOX-3. The thermal
inactivation of crude pea LOX and the recombinant LOX
(rLOX) were studied. Heat-inactivation plots for crude extracts of pea
LOX were linear from which thermodynamic activation parameters,
DELTAH, DELTAS and DELTAG have been estimated. The enzymatic activity
was relatively stable with a respective half-life (t1/2) at 60 degreeC of
54.2 min for LOX from pea (Pisum sativum L. cv. Birte) or 18.4
min for a mutant line lacking LOX-2. At 50degreeC the
thermostability of LOX-3 present in crude extracts of the mutant
strain (t1/2 = 66.8 min) was 90% greater than purified recombinant
LOX-3 (rLOX-3; t1/2 = 34.6 min). However, rLOX-3 was more
heat-stable than rLOX2. Both rLOX-3 and pea mutant line lacking
LOX-2 possessed considerable thermostability at 60degreeC (t1/2 =
16.5 min and 18.4 min, respectively). Even at the higher temperatures of

the same receiver. Recovery of the internal standard, N-nitrosoazetidine, added at the 10 ppb level, was 86.5%. In addition, a few samples of nitrite-treated salmon (lox) were also tested for N-nitroamines. The results show that the method is applicable to samples containing nitrite-treated fish and fish-derived products.

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:637609 CAPLUS
DOCUMENT NUMBER: 130:49589
TITLE: Natural antioxidant activity in some microalgal species
AUTHOR(S): Perelman, Alexander; Matsukawa, Ritsuko; Schlosberg, Michal; Cohen, Bat-Sheva; Fostik-Magyar, Claude; Dubinsky, Zvy
CORPORATE SOURCE: Department of Life Sciences, Bar-Ilan University, Ramat Gan, 52900, Israel
SOURCE: Israel Journal of Plant Sciences (1998), 46(2), 169-176
CODEN: IJUPEU; ISSN: 0792-9978
PUBLISHER: Laser Pages Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English

AB At the present time there is an increasing awareness of the potential harmful effects of various chem. **food additives** used to delay spoilage. This resulted in the search for natural substances which may prevent oxidn. of various lipids, a main cause of the onset of rancidity. Various algae were examd. for their potential as sources of antioxidants. As part of that search, the amt. of double bonds in their constituent compds. and their antioxidant (AO) and lipoxxygenase (**LOX**) activities were followed in some microalgal species. The effect of light intensity, salinity, and temp. on the AO activity of lipid exts. from the microalga Navicula sp. was studied. Maximum AO activity was obtained in Navicula grown under low light intensity. AO activity of various algal fractions was studied both as inhibition of **LOX** activity and of linoleate autoxidn. Most of the **LOX** inhibitive activity was found in the membranal lipid-sol. fractions, whereas the inhibition of autoxidn. was assocd. with the water-sol. components of the cell cytoplasm.

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L8 0 L6 AND UNPREDICTAB?

=> s l6 and LOX
L9 0 L6 AND LOX

=> s l6 and lipxygenase
L10 2 L6 AND LIPOXYGENASE

=> d l1- 1-2 ibib ab
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=> s lipoxxygenase and wine and flavor
 L11 6 LIPOXYGENASE AND WINE AND FLAVOR

=> d l11 1-6 ti

L11 ANSWER 1 OF 6 AGRICOLA Compiled and distributed by the National
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TI Analysis of foods and beverages, headspace techniques

L11 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

TI Protein and cDNA sequences of **lipoxxygenase** LOX genes from Vitis
 vinifera and use

L11 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

TI Volatile compounds c6 in **wines** and other alcoholic beverages

~~L11 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN~~

~~TI Impact of fermentation technology on the phenolic and volatile composition
 of German red **wines**~~

L11 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

TI Significance of **lipoxxygenase** in fruits and vegetables

L11 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

TI Enzymes occurring in the formation of six-carbon aldehydes and alcohols in
 grapes

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<u>L10</u>	vitis.ab. and lipoxxygenase	2	<u>L10</u>
<u>L9</u>	vitis and lipoxxygenase	46	<u>L9</u>
<u>L8</u>	xygenaseL7	0	<u>L8</u>
<u>L7</u>	Vitis	1605	<u>L7</u>
<u>L6</u>	lipoxxygenase.clm. and vitis	1	<u>L6</u>
<u>L5</u>	LOX.clm. and vitis	5	<u>L5</u>
<u>L4</u>	LOX.clm. and vitis.ab.	1	<u>L4</u>
<u>L3</u>	LOX.ab. and vitis.clm.	0	<u>L3</u>
<u>L2</u>	LOX.clm. and vitis.clm.	1	<u>L2</u>
<u>L1</u>	LOX.clm and vitis.clm.	0	<u>L1</u>

END OF SEARCH HISTORY